United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,356	07/02/2003		Ralph Zahn	26563U 5402	
20529	7590	10/10/2006		EXAMINER	
NATH & A			MARSCHEL, ARDIN H		
Alexandria, VA 22314				ART UNIT	PAPER NUMBER
				1614	

DATE MAILED: 10/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 (()				
	Application No.	Applicant(s)				
Office Action Commons	10/612,356	ZAHN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ardin Marschel	1614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-29 are subject to restriction and/or expressions.	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. **The oath of the confidence of the confid	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

Art Unit: 1614

DETAILED ACTION

Election/Restrictions

Note: The Use claims are reasonably interpreted as process claims due to starting with the limitation: "Use".

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, drawn to an in vitro method for inducing a conformational transition in recombinant proteins and/or variants thereof, classified in class 702, subclass 19. If this Group is elected then the below set forth specie election is also required.
- II. Claim 10, drawn to an oligomeric beta-sheet intermediate structure produced via the method of above Group I, classified in class 530, subclass 350. If this Group is elected then the below set forth specie election is also required.
 - III. Claim 11, drawn to an amyloidogenic aggregates produced from the above Group II intermediate, classified in class 530, subclass 350. If this Group is elected then the below set forth specie election is also required.
 - IV. Claims 12-26, drawn to use of water soluble complexes of oligomeric beta-sheet intermediates or amyloidogenic aggregates for exploitation of aspects of the conversion, classified in class 702, subclass 19. If this Group is elected then the below set forth specie election is also required.
 - V. Claim 27-29, drawn to compositions of water soluble complexes of oligomeric beta-sheet intermediates or amyloidogenic aggregates for

diagnosis or treatment classified in class 435 and 514, subclasses 4 and 2, respectively. If this Group is elected then the below set forth specie election is also required.

SPECIE ELECTION REQUIREMENT FOR ANY OF GROUPS I-V:

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species of diseases are listed in claim 6 which differentiate the function and use of the methods or compositions of any of Groups I-V into distinct types due to each disease being caused by distinct biochemical bases thus making their examination and search an undue burden if performed together.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, all claims within Groups I - V are generic to the above Species.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

Art Unit: 1614

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The inventions are distinct, each from the other because:

The distinctness between the species has been described above.

The inventions of Groups I -V are directed to related inventions. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the inventions of Group I (in-vitro method for inducing protein conformational transition) vs. Group II (an intermediate structure which is generally produced due to common and general protein conformational change under normal conditions which has not been distinguished via factual evidence or mechanistic reasoning of record) vs. Group III (aggregates which may be formed via a variety of physiological conditions due to general protein interactions which also have not been instantly distinguished from the claimed methodology) vs. Group IV (uses of water

Art Unit: 1614

soluble complexes of proteins are commonly formed as is required for proteins to exhibit their respective activities) vs. Group V (water soluble complexes usable for distinct usages for protein structural studies in order to investigate for inhibitors usable for treatment of various diseases as desired, it is noted that the Group V disease treatment or diagnosis limitations are non-specific and thus are not particularly directed to the disease states of claim 6, for example) have different function and/or effect as summarized for each Group above. Therefore, an undue search burden would be required to search them together thus supporting this restriction requirement.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process

Art Unit: 1614

claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., Supervisory Patent Examiner,

Art Unit: 1614

AU 1614, whose telephone number is (571)272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Florence Patterson, whose telephone number is (571)272-0544.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2006

AHDIN H. MARSCHEL SUPERVISORY PATENT EXAMINER